

Method and device for the encoding and decoding of power distribution at the outputs of a system

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Abstract

In a method and device for the encoding/decoding of the power distribution at the outputs of a system, the distribution encoder comprises an element that receives a signal $s(t)$ and a piece of distribution information $i(t)$, and that superposes said piece of distribution information $i(t)$ received on said signal $s(t)$ received. The piece of information $i(t)$ is used for the subsequent distribution of the total power P_s of said signal $s(t)$ at said output or outputs $\{S\&Ggr;\}$ of a system $\&Ggr;$. The distribution decoder comprises one or more inputs on which there is received an encoded signal $c(t)$ or an encoded signal divided into several signal $(c_j(t))_{j \in [1,2N]}$ comprising the useful signal $s(t)$ and the piece of distribution information $i(t)$. It also comprises one or more outputs connected to the outputs $\{S\&Ggr;\}$ of said system $\&Ggr;$ to which said signal $s(t)$ is transmitted by distributing the total power received P_s according to said piece of distribution information $i(t)$. The disclosed method and device enable, for example, the fast, low-power switching of the outputs of a high-power system and the programming of a system with variable power outputs

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